



**In-person and
virtual meeting
October 1, 8
AM. for details
see pg 4 ...**

SNARS NET on DMR – Tuesdays 8pm
DMR Talk Group: 31328 SNARS

SNARS Treasury Closing Balances
From AE7OX As of 9/24/2022

Account	
Operating	\$10,213
Savings	\$12,664
Self Insurance	\$15,750
PayPal	\$1,158
Convention	\$4,212
Total	\$43,997
Net Monthly	\$444
Net YTD	-\$3,242

SNARS Renewals 18

SNARS Membership as of

Extra	134	31%
General	124	29%
Technician	145	34%
Advanced	16	4%
No License	8	2%

Total 433

SNARS ARRL Members as of

Regular	268	62%
Life	38	9%

PRESIDENT'S VOICE

President John Miller, N7JDM

Email: jmil912@gmail.com



It looks like summer is coming to an end, the cooler weather is no doubt welcome to many of us. POTA (Parks on the Air for those who don't know) has been popular some members who have activated a

number of parks in the area and have made considerable contacts with other hams. Give it a try, you may find it entertaining.

The recent ham swap at Cabela's went off without a hitch. There were fewer sellers due to the smoke from the Mosquito fire but the conditions were not too bad and we all had a great time swapping gear for money and swapping a few tales as well. The smoke seemed to be worse in town than out at the meet.

Talks are still in progress on a meeting place. Boomtown looks to be the most likely candidate, and negotiations are going on. I hope to have more news by next month.

That's all, see ya on the air.

73, John N7JDM



PO BOX 7727 Reno NV 89510
 Yearly Dues: \$40.00 Individual • \$50.00 Family
 775.453.4142 <http://snars.org>

2022 Officers

President.....John Miller N7JDM
 Vice-President.....John Byerly, N7ROJ
 Treasurer.....Doug Edmondo, W7DBE
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 DirectorJim Shepherd, W6US
 DirectorBarry Bettman, K6ST

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Cracklin StaticHowie Holden, WB2AWQ
 W7TA TrusteePeter DeBay, KE7VSR
 KR7ENO Trustee.....Howie Holden, WB2AWQ
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 Youth Involvement.....Barry Bettman K6ST
 NVQSO Coordinator.....Jim Shepherd, W6US
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 DMR Net ManagerAnthony Marcin, W7XM
 Reno Ham SwapWes Vick, KG7QXE
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Cracklin Static Publication

Editor: Howie Holden WB2AWQ - holden7471@msn.com
 Cracklin' Static is the Newsletter of, and sponsored by the Sierra Nevada Amateur Radio Society. Cracklin' Static is published the week before meetings. Opinions expressed herein are those of the editors and contributors and should not be considered as official expressions of the Club Officers, Staff or Club Members, or as endorsements by same.

Material for publication may be edited to enhance readability or to save space. We reserve the right to use whatever font size, line spacing or other tools as may be required to publish this Newsletter. **Deadline for input to the newsletter is 1500 hours on the Sunday** prior to the 1st Saturday (or whichever Saturday is the meeting) of each month.

SNARS Wide Area Linked System

147.030 + PL 123.0	Sparks, Fernley, Fallon	Online
147.210 + PL 100.0	Reno, Sparks	Online
147.150 + PL 123.0	Lake Tahoe, Truckee, Carson	Online
146.925 - PL 123.0	Lovelock, Fallon	Online
146.670 - PL 123.0	Winnemucca	Online
444.875 + PL 100.0	Yerington	Not Linked
444.125 + PL 123.0	Reno Sparks	Offline

DMR Systems

444.925 + CC 1	Reno, Sparks	Online
444.825 + CC 1	Dayton, Fallon, Carson	Online
443.925 + CC 1	Lake Tahoe, Truckee, Carson	Online
443.950 + CC 1	Incline Village	Offline
442.875 + CC 1	Sparks, Fernley, Fallon	Not Linked
442.850 + CC 1	Downtown Reno	Online
441.950 + CC 1	Fallon, Fernley	Offline

Fusion Systems

146.610 - PL 123.0	Reno, Carson, Dayton	Online
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IRLP / EchoLink Systems

147.300 + PL 123.0	Reno, Sparks	Online
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Packet / APRS

145.050 - RNO	Reno, Carson, Dayton	Online
145.050 - ROSE	Lake Tahoe, Truckee, Carson	Online
144.390 - TOULON	Lovelock, Fallon	Offline

Standalone Systems

147.390 + PL 100.0	Reno, Carson, Dayton	Online
443.075 + PL 123.0	Reno, Carson, Dayton	Online
927.0875 + PL 114.8	Reno, Carson, Dayton	Online

Online Offline Not Linked

NOTE: The status of repeaters may not up to date on this page. Check with the SNARS website for repeater status.

Weekday on the SNARS Linked System

147.030 + PL 123 – Sparks/Fernley
 147.150 + PL123.0 – Lake Tahoe / Truckee
 147.210 + PL 100.0 - Reno
 444.875 + PL 100.0 - Yerington
 146.925 - 123.0 – Lovelock / Fallon
 146.67 – PL 123.0 - Winnemucca

Monday through Friday @ 12:00pm

Open to all amateur radio operators. A general informational net for the amateur radio community of Northern Nevada and Eastern California. Radio Checks and Questions are welcomed.

Nets on the SNARS Linked Systems

147.210 + 100.0 | 147.030 + 123.0 | 147.150 + 123.0
 147.670 – 123.0 | 146.925 – 123.0 | 444.875 + 100.0

ERC Net for NV and Northern CA	Monday @ 9:15pm
N. Western NV ARES Net	Thursday at 7:30pm
Northern Nevada Preppers Net	Wednesday @ 8:00PM
Hospital Net	Friday @ 10:00AM

Nets on IRLP (GSR) System

Repeater: 147.300 + 123.0

Amateur Radio Newline	Monday - 8:00PM
Nevada Skywarn Net	Wednesday - 7:00pm

Nets on Simplex/HF

Jefferson Noon Net	7.204 LSB	Daily - 12:00pm
6 Meter Net	50.350 USB	Tuesday – 8:00pm
2 Meter Weak Signal	144.250 USB	Wednesday - 8:00PM
2 Meter Simplex Net	146.500 FM	Thursday – 8:00PM
10 Meter Net	28.350 USB	Sunday – 2:00PM

**SNARS Weekly DMR Net – Tuesdays
 8:00PM**

SNARS Talk Group 31328

Open to Members and Guests. A general information net each week on DMR.

SNARS CALENDAR

SNARS Board Meeting Wednesday, Oct 12, 6:00PM.
 Location and mode Chin Chin, Sparks, and Zoom

HAM RADIO NIGHT on Zoom 7:00 PM Monday, Oct 17, 2022 see <https://snars.org/hamradionight/>

Reno QRP Group Meeting Tuesday, October 18, 11am – 12pm, Jack's Coffee Shop #2, 605 N Wells Ave, Reno, NV. Contact Ed, WD7Y WD7Y@sbcglobal.net for more info. If cancellation is needed, will be announced on the SNARS noon net.

Next months SNARS Breakfast Meeting Nov 5, 2022, 8 AM. Location and media mode tentative depending on Board decision.

WELCOME NEW MEMBERS

As of 9-25-22

Dan	Casas	K7TBO
Eric	Smith	KK7GZW
Suzanne	Manugian	KN6VRB
Robin	Maguire-Jones	KF7VVE
Rick	Malone	KK7HZS
Robert	Clark	KJ7PWT
Dennis	Bagwell	KK7HYR

SNARS In-Person and Virtual Monthly Meeting

**SNARS (hybrid in-person & virtual Zoom) Monthly Meeting
Saturday, Oct 1, 2022**

In-Person 8 AM PDT (coffee and donuts)

SNARS Meeting at 9 AM both Zoom and in-person

In-Person @ Regional Public Safety Training Center (5190 Spectrum Blvd, Reno) - or - join us via Zoom

In Person location (no registration, just show up)

Regional Public Safety Training Center

5190 Spectrum Blvd, Reno

Room 103 & 105

**Topic:
"Nevada QSO Party"
with Jim Shepherd
W6US**



**MEETING
NOTICE!**

To join via Zoom, register here:

https://us06web.zoom.us/meeting/register/tZApcOmurDwoGNxH6s_f-NqkwSh-mhnW3dDU

Questions? Contact Barry K6ST@arri.net

More Info In-Person / Register Zoom: <https://snars.org/monthly-meeting/>

NVQSO PARTY NEXT WEEKEND!

The Nevada QSO Party will start at 8pm Friday night October 7th and will run to 2pm on Sunday afternoon local time. So far, we have operations in each of the 17 counties except Carson City, Pershing, and Lincoln counties, but more are signing up daily. The more Nevada stations that get on the air, the better this event will be for everyone! **We especially need stations using CW and Digital modes.** It is great if you can go out into the rural counties, but we also need lots of hams to operate from their home QTH. Even if you only get on for a couple of hours, that will help everyone you contact. Please sign up on the Activations page on the <http://nvqso.com> website, don't worry if you see other signed up for that county, the more in each county, the better it is for all!

One of the unique parts of this event is the use of repeaters, as this allows **everyone** to participate. The SNARS linked system covers parts of 8 different Nevada counties and several California sections. DMR has worldwide coverage, so there is the opportunity for some big scores using a handheld! Getting on top of a mountain will let you hit lots of repeaters!

The state of Nevada and its Counties are highly wanted for various awards by those hams

around the world, and this is a great chance for them to talk to us! The exchange is simple, a 59 for the signal report and your county code—for Washoe County you would give out a "59 Washoe County, November Victor Whiskey Alpha Sierra"... Out of state hams like Truckee would give a 59 and their ARRL/RAC section like

this "59 Sacramento Valley, Sierra Victor". While most states have a single section, big states like California have up to 9 sections. You will have to log the contacts, and using a computer with a program like the free N1MM+ Logger makes it easy and will catch some errors like using CA instead of the proper section in California. The <http://nvqso.com/> website has the full rules, FAQs, and other information including a signup sheet for county activations. If you plan to operate, please sign up as the more hams that are listed will encourage more hams

to participate. Instate hams can contact everyone, and out-of-state hams can only contact Nevada hams for credit.

Get on the air this weekend and have fun working the world!!!

Jim Shepherd W6US nvjims@gmail.com



THE NAME OF THE GAME

Jim Shepherd, W6US nvjims@gmail.com

TIME

Time is very important to ham radio. The official time of ham radio is UTC, Coordinated Universal Time. UTC is the standard time at the Prime Meridian which happens to go through Greenwich, England. It does not change to daylight savings time, always remaining the same. Since Ham Radio is a worldwide service, we all need to use the same time. Your hamshack needs to have a clock set to UTC time in order to properly log contacts.

Here in Nevada and California, we are 7 hours before UTC during daylight savings time and 8 hours during standard time. In the late afternoon and evening here, it is actually tomorrow in UTC. 5:01 pm in the summer on a Friday afternoon in Reno is just after midnight (0001z hours) Saturday morning UTC.

Most entities that have worldwide operations use UTC. The military, aviation, satellites, and others depend on UTC to efficiently operate. The military has long used a 'Z' (Zulu) after the time to designate UTC times and this has been adopted by most of the users. UTC is always in 24 hour format to avoid confusion between morning and afternoon.

Ham Radio contests always give their official time in UTC, as most contests may have some hams from around the world participating. Since it does not change with daylight savings time, everyone is on the same clock for starting, stopping and logging the contacts. When the logs are scored, the time is checked against both ends of the contacts and if they are off by more than a couple of minutes, the contacts are cancelled or possibly penalized... All viable logging programs are capable of taking the local computer time and changing it to UTC if they are properly configured, and then making the log entry with the proper UTC time.

WWV, WWVH, and GPS all give their time in UTC, and are excellent ways to set your clock in the shack. With a

GPS, be sure to set your unit to display time in UTC as they may automatically convert it to your local time. On a Windows computer, you can go into settings, and add a second clock for UTC. After you have done this, you can hover your mouse over the time in your toolbar and it will display UTC time as well as the full date.

For your shack clock for UTC, it will be a bonus if it displays the date and day of the week. There are lots of units out there. If they will auto correct using WWV or GPS, that is even better. The ultimate timepiece is the GeoCron that shows all the timezones around the world and a whole lot more. The newer digital model connects via a HDMI port to a 4K digital TV or monitor. The stand-

ard configuration shows countries and their call prefixes, the gray line, and a host of other things. There is a special ham radio subscription software that does a whole lot of different things, but the basic package is very good.

Additionally, having the correct time within a second of UTC is absolutely needed to run the WSJT-X modes using your computer. There are a number of programs that will keep your computer clock in sync with the rest of the world. Dimension 4 can be downloaded at:

<http://www.thinkman.com/dimension4/download.htm>

and is easy to use. I also use TimeFudge to make small adjustments to the time when I am not connected to the internet while using FT8 and FT4 out in the field. It is available at:

<https://timefudge.software.informer.com/> (there are a couple of download buttons, mouse over them until you find the one that says 'download TimeFudge'—the other ones are spam...) The time keeper that comes with Windows does not do a good enough job for these digital modes. You can check your computer by going to: <https://time.is/> --it showed 0.015 second off from standard time when I wrote this article.

Hope this clears up some of the confusion about time and ham radio.



MARTIN F. JUE AND MFJ ENTERPRISES ARE CELEBRATING 50 YEARS IN BUSINESS THIS OCTOBER. MFJ IS THE LARGEST AMATEUR RADIO ACCESSORY PRODUCTS COMPANY IN THE WORLD!



MFJ Enterprises through the years has expanded, and now consists of MFJ, Ameritron, Mirage, Vectronics, Cushcraft and Hy-Gain.

MFJ Enterprises, Inc., was founded in 1972 by Martin F. Jue. The company began operations in a small, rented hotel room in the old Stark Hotel in downtown Starkville, Mississippi. The company began marketing its products in October of 1972. The first product was a high selectivity filter that would enable a receiver to separate one Morse code signal from scores of other signals that were being transmitted over the radio airwaves.



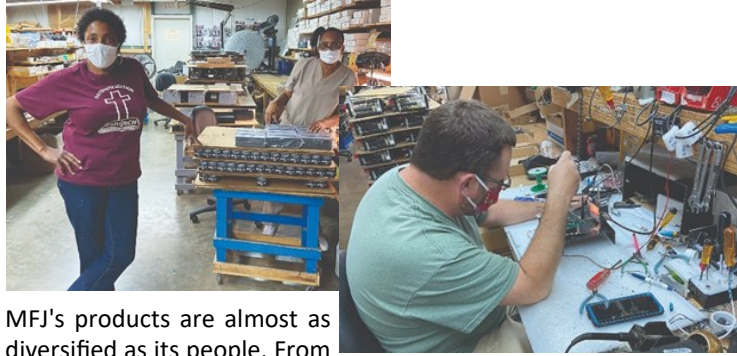
Martin F. Jue, founder of MFJ

The success of this first product, which sold several thousand units, was the seed that grew into the MFJ of today. From that initial location, the growing business moved to a large room in a building on Maxwell Street (what is now known as the Cotton District Grill), then to a six hundred square foot trailer. MFJ then returned to the Maxwell Street location after expanding beyond the capacity of the trailer, but this time, MFJ rented the entire Maxwell Street building to accommodate its growing product line. The pictures below are of the first product, the CWF-2 CW Filter.



Continued next page.....

The largest expansion in the company's history began with the move to Louisville Street where MFJ has remained (in a building it still occupies) for fifteen years. This building affectionately known as "MFJ Blue" (it once was the Starkville area's roller-skating rink) houses MFJ's extensive Metalworks Department, MFJ's Antenna Shop, and Mirage Communication's Equipment. In the summer of 1995, MFJ began an extensive move to its landmark location at 300 Industrial Park Road. This building now houses the main administrative office for the company as well as shipping, warehouse, and production facilities. MFJ, seemingly ever pressed for space, is already bursting at the seams at this location after only two years and looks to expand even further.



MFJ's products are almost as diversified as its people. From the President, Martin F. Jue, to the factory worker, MFJ is as ethnically diverse as a company could possibly be. Martin Jue's family was originally from Canton, on the mainland of China. In the 1860s, they settled in a small delta Mississippi town called Hollandale to help build the Union Pacific Railroad. Many countries are represented in the MFJ work force. One recent visitor from the Netherlands was able to speak six different languages during his tour of the MFJ facilities. Diversity certainly promotes a more creative working environment.

MFJ Enterprises through the years has expanded and now consists of MFJ, Ameritron, Mirage, Vectronics, Cushcraft and Hy-Gain. The thousands of products are sold worldwide through dealers and direct sales. In the beginning MFJ Enterprises, Inc., initially sold only retail, centering on direct marketing schemes. The company sought dealers early on, but distributors were not ready to bank on the young business. After the MFJ ham radio market explosion occurred, dealers and distributors were banging on MFJ's doors for a chance to stock their shelves with MFJ products. Today, MFJ is well-represented in the United States by large communications super-stores and small "on the road" type businesses traveling to amateur radio and computer shows, known as "hamfests." MFJ travels to nearly 12 hamfests a year themselves and are well-known for their lavish displays of products. Dealers worldwide sell MFJ products in stores and online.



Extensive research and development goes into the Ham Radio Communication hobby business. New products are constantly on the horizon as MFJ realizes that to stay on top, it must continue to create and innovate. The main source of inspiration for new

products comes from MFJ's growing customer base. MFJ receives many letters and phone calls from its clients requesting new equipment to be built. Other requests come formally, in person, and at hamfests. I'll bet every ham shack has at least one MFJ product!



The MFJ-259 antenna analyzer and its variants have sold tens of thousands worldwide!



MFJ tuners are the best-selling tuners worldwide
The MFJ 949E tuner is the best-selling tuner in the world



Ameritron Amplifiers are the world's best-selling amplifiers!

The metalworking shop, silk-screening facility, engineering, print shop, and antenna shop are also located in the 921 Louisville Road building. Almost every MFJ product starts from scratch (as just an idea). From original design to final production, quality is tested at every point. MFJ's slogan, "Making Quality Affordable," has been well received in the ham radio community. The niche of the market was captured by offering quality accessory products at low prices. Many a ham have used the HY-Gain and Cushcraft Antennas to get on the air!

Whether it be a TH-11 pictured for HF or a UHF / VHF antenna like the A270-10S pictured, MFJ has an antenna for all your needs.



Factory tour courtesy of K5KUB

<https://www.youtube.com/watch?v=d5IMnjqCiKU>

In 1996, MFJ began making some of its own components used in the production of antenna tuners. MFJ's designs have been proven to handle high power operation. Constantly changing and constantly improving, MFJ and its subsidiaries have managed to stay on top of their share of the market by a generous customer service policy and listening to what the customer wants.

Continued next page.....

MFJ offers a one-year unconditional warranty called the **"NO MATTER WHAT"** warranty. MFJ will replace or repair a customer's MFJ unit (at MFJ's option) for one complete year. A technical help support line is also offered toll-free for customers needing help or advice with a ham radio project.

The constant growth of the amateur radio hobby has produced a continuously growing base of new ham customers. This will enable MFJ to maintain its stature as the World Leader in ham radio accessories, equipment, and service for many years to come.

One stop shopping for antennas, test equipment, power supplies, transceivers, masts, tuners, and more!

As they say, "everything from soup to nuts".

<https://mfjenterprises.com/>

We wish Martin Jue and the team at MFJ a well-deserved Happy Birthday and best wishes for another 50 years

Don Sherman W7SSB donssherman@gmail.com

Editor's Note: Don submitted this to me in August, but I misplaced it. Sincere apologies to Don, he is a valued, long-time contributor to Cracklin' Static. Furthermore, while QST offered a single page congratulating MFJ (after years of MFJ placing pages upon pages of ads in QST), Don went and researched a whole fascinating history of MFJ and Martin Jue. Don's work is also appearing in CQ magazine for October. In Don's own words: "I was a paid consultant up to 2 years ago on marketing, business development and new product/updating older products for market introduction. I have been a friend of Martin Jue's for many years! We still talk almost monthly"

Thank you Don!

RENO SWAPMEET SEPT 17

Despite the pervasive smoke, a few hardy vendors and buyers made it out to the Reno HAMSWAP on Sept 17. Yours truly did not go, although I wanted to, but I thought the smoke was too thick. Thanks to Don, W7SSB for the photos.



MIKE'S MISSIVES CHAPTER SEVENTY

Mike Katz, N7MSK

FCC PART §97.203 Beacon station.

- (a) Any amateur station licensed to a holder of a Technician, General, Advanced or Amateur Extra Class operator license may be a beacon. A holder of a Technician, General, Advanced or Amateur Extra Class operator license may be the control operator of a beacon, subject to the privileges of the class of operator license held.
- (b) A beacon must not concurrently transmit on more than 1 channel in the same amateur service frequency band, from the same station location.
- (c) The transmitter power of a beacon must not exceed 100 W.
- (d) A beacon may be automatically controlled while it is transmitting on the 28.20-28.30 MHz, 50.06-50.08 MHz, 144.275-144.300 MHz, 222.05-222.06 MHz or 432.300-432.400 MHz segments, or on the 33 cm and shorter wavelength bands.
- (e) Before establishing an automatically controlled beacon in the National Radio Quiet Zone or before changing the transmitting frequency, transmitter power, antenna height or directivity, the station licensee must give written notification thereof to the Interference Office, National Radio Astronomy Observatory, P.O. Box 2, Green Bank, WV 24944.
- (1) The notification must include the geographical coordinates of the antenna, antenna ground elevation above mean sea level (AMSL), antenna center of radiation above ground level (AGL), antenna directivity, proposed frequency, type of emission, and transmitter power.
- (2) If an objection to the proposed operation is received by the FCC from the National Radio Astronomy Observatory at Green Bank, Pocahontas County, WV, for itself or on behalf of the Naval Research Laboratory at Sugar Grove, Pendleton County, WV, within 20 days from the date of notification, the FCC will consider all aspects of the problem and take whatever action is deemed appropriate.
- (f) A beacon must cease transmissions upon notification by a Regional Director that the station is operating improperly or causing undue interference to other operations. The beacon may not resume transmitting without prior approval of the Regional Director.
- (g) A beacon may transmit one-way communications.

SHORT TAKES (By Jim Shepherd W6US)

CONTEST CALENDAR

There are 3 major contests this month. On October 1-2 is the California QSO Party. The 58 California counties will be looking for Nevada contacts, and our best chances to catch them will be on 40 and 80 meters in the late afternoon and evening as the higher frequencies will skip right over them. The Biggest Contest of the Year is the following weekend, October 7-9. The NEVADA QSO Party is sponsored by SNARS and we need EVERYONE to participate. See the full information in this newsletter. The final biggie is the CQ World Wide DX SSB Contest. Here is your chance to work over a hundred DX countries in one weekend. Please note that all times and dates are UTC time, and you will have to convert that to our local time and date. These and other contest information can be found at:

<https://www.contestcalendar.com/contestcal.html>

DX

There are lots of DXpeditions in countries that most of us haven't ever heard of, and probably haven't put in the log... The DX Contest the last weekend of the month and a couple of days before are good times to add countries to your log. There are too many to list here, so go to the listing at:

<https://www.ng3k.com/Misc/adxo.html>

THIRD MONDAY ZOOM HAM RADIO NIGHT

We will have our popular Ham Radio Nights via ZOOM to get your questions answered or learn about different parts of Ham Radio. It will be held at 7pm on Monday, October 17th. More information, including the link will be published before that date.

NAME THAT RIG?

(Answer on page 15)



YOUTH INVOLVEMENT

Ham Radio & Scouting will be happening in October 2022 with two events in the Reno area:

Jamboree on the Air: JOTA (Oct 15 2022 9AM - 2PM PT) Northwest Reno



Each year more than a million Scouts and Guides "get together" over the airwaves for the annual Jamboree-on-the-Air (JOTA). JOTA-JOTI is the world's largest digital event taking place online and over the air. The educational event brings together more than 2.5 million youth from around the world every year in October for a weekend of Scouting and friendship. Saturday Oct 15, 2022 9a-2p Location: St. Albert the Great Catholic Church - 1250 Wyoming Ave, Northwest Reno. Corner of Kings Row and Wyoming Ave, across from Clayton Middle School

For more information on JOTA:

<https://www.jotajoti.info/>

and ARRL Jamboree On The Air (JOTA):

<http://www.arrl.org/jamboree-on-the-air-jota>

Please register to help SCOUTS for Jamboree on the Air

[https://docs.google.com/forms/d/](https://docs.google.com/forms/d/e/1FAIpQLSegotNaHiu94Cy5rg_QyfNtZEMFqEgdFbdcoqjkTyVxYexYWW/viewform)

[e/1FAIpQLSegotNaHiu94Cy5rg_QyfNtZEMFqEgdFbdcoqjkTyVxYexYWW/viewform](https://docs.google.com/forms/d/e/1FAIpQLSegotNaHiu94Cy5rg_QyfNtZEMFqEgdFbdcoqjkTyVxYexYWW/viewform)

Reno Scout Event (Oct 28-30 2022) Reno-Sparks area



This amazing event is currently shaping up and we are looking to help make the most of it.

The local Scout Council is putting together the Reno Scout Event details as we speak, and the location will be "To Be Determined" but will likely be within the Reno/Sparks area. There will be some scouting education opportunities where Ham Radio will play a key role. More information will be coming soon.

Please register to help SCOUTS for the Reno Scouting Event

[https://docs.google.com/forms/d/](https://docs.google.com/forms/d/e/1FAIpQLSdclSCoZ8av3Hlx1U3A7OszDvnIMWQROMjvyspbNLkQrdsdcg/viewform)

[e/1FAIpQLSdclSCoZ8av3Hlx1U3A7OszDvnIMWQROMjvyspbNLkQrdsdcg/viewform](https://docs.google.com/forms/d/e/1FAIpQLSdclSCoZ8av3Hlx1U3A7OszDvnIMWQROMjvyspbNLkQrdsdcg/viewform)

Any questions, please contact:

Barry K6ST k6st@arrrl.net

Nevada Section Youth Coordinator, ARRL (American Radio Relay League) www.arrrl.org

The national association for Amateur Radio

SNARS HAM RADIO NIGHT

3rd Monday of each month at 7PM PT on Zoom
Join together and Elmer each other for Ham Radio Night on
MONDAY, OCTOBER 17, 2022, 7PM

The topic smaller breakout groups will be:

NVQSO PARTY STORIES ANALOG VHF/UHF DMR/FUSION

OPEN CONVERSATION FOR YOUR HAM RADIO TOPICS

Each participant can move themselves around to different breakout topics in zoom conferencing to enjoy.

If you have any questions or would like to be of service as an Elmer, please contact K6ST Barry k6st@arrrl.net



Register below for our next Ham Radio Tech Night, SNARS (virtual on Zoom conferencing) Oct. 17, 2022, 7:00PM PST

<https://us06web.zoom.us/meeting/register/tZlscO6gqDkjHt3IJGJE-xCapqRYoRoyaQz>

W7SSB's FUN STUFF

Essentially amateur radio QRP operation can be defined as operating with low power. There are defined limits for these as given below, but in reality QRP often implies more than this. Not only do people operate using QRP, but many people also build their own equipment. Another aspect of QRP is that many people also use wire antennas they have built and erected themselves. All of this fits with the general QRP ethos of home construction as well as the low power operation. **QRP is a way of operating that involves using low power transmitters, that are no more than 5 Watts for Morse or data modes, or 10 Watts pep for voice.**

In view of the fact that signal strengths are lower than those of stations using higher powers, most QRP operation uses Morse, although this is not exclusively the case. Using Morse transmissions enables contacts to be made when it would not be possible using other modes. Nevertheless SSB and other modes are used for QRP operation.

HF BANDS QRP FREQUENCIES

AMATEUR RADIO BAND METERS	QRP FREQUENCY CW MHZ	QRP FREQUENCY SSB MHZ
160	1.843(Eu) 1.810(USA)	1.910
80	3.560	3.690(Eu) 3.985(USA)
40	7.030 & 7.122(esp USA)	7.090(Eu) 7.285(USA)
30	10.106 & 10.116	
20	14.060	14.285
17	18.096	18.130
15	21.060	21.285(Eu) 21.385(USA)
12	24.906	24.950
10	28.060	28.365(Eu) 28.385(USA)

<https://www.onallbands.com/four-myths-about-ham-radio-qrp-operating/> great article by Sean KX9X

Please watch Josh HRCC QRP operating video - a little bit of humor and a lot of info !

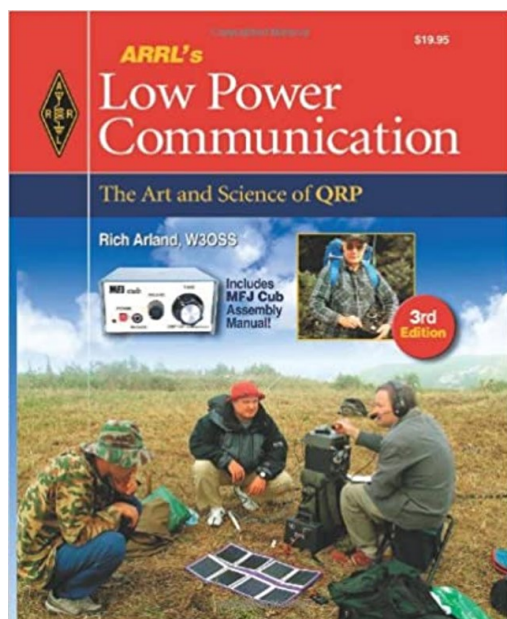
<https://www.youtube.com/watch?v=dChUgvu94Sw>

QRP operation has come into its own in the last 20 + years. This is due to several reasons! The introduction of QRP transceivers from kits to mono banders like the MFJ 9600 series. BUT with the introduction of the Yaesu FT 817 transceiver over 20 years ago, that is when the market took off for low power transceivers.

At the high end Elecraft KX2 / KX3 and Icom IC 705. You also can buy QRP lower priced quality transceivers from China such as the Xiegu, Recent China line of products and several other Chinese companies. Until recently Russia was selling the LAB 599 products in the US. Just about every Japanese company at one time or another has marketed QRP radios. Almost 40 + years ago Kenwood and Yaesu had low power transceivers. You don't have to run out and buy a QRP transceiver when you can just back the power off on your 100 watt rig and run QRP power. There are many used QRP rigs on the marketplace at decent prices. QRP is not for everyone! A lot of hams get frustrated by not making contacts. This is where patience, perseverance, skill and sometimes luck come into play!

There is a whole new world out there in the QRP operating mode. SOTA (Summits On The Air) POTA (Parks On The Air), IOTA (Islands On The Air) and several more. It makes us get out of the house and get some exercise, hihi. With the small transceivers, lithium batteries and with a light weight antenna you can store it all in a backpack or Pelican type case (Go Bag) you grab and go!

There are many internet sites and videos to answer your questions! Get a partner, head out into the outdoors and try operating portable QRP! ALSO - you will spend a lot less money putting together a QRP station and maybe you will find a great new way to enjoy our hobby?



Try it, you may like it!

Videos to learn from!

<https://www.youtube.com/watch?v=4g904Hvcxo0>

<https://www.youtube.com/watch?v=YOX0wwluXUs>

Stay tuned!

Don W7SSB

ARES NEWS

EVENTS CALENDAR

EVENT 2022	DATE	DATE END	SPONSOR/ORGANIZER	COORDINATOR	CONTACT
Grinduro SBTS	TBD		Plumas Amateur Radio Ops	Larry Trotter KI6YUK	dltrtrotter@sbcglobal.net
Nevada Day Parade	10/29/22		NV AREA NW DEC	John Abrott KD7NHC	jabrott77@gmail.com
Sparks Turkey Trot	11/24/22		WC-ARES	Bob Miller WA6MTY	wa6mtty@gbis.com

NOTE: Plumas ARC always have a need for operators. Go over to some beautiful country and help out the Plumas Amateur Radio Club

AIR RACES: "Many thanks to: KL7RI, KE7OIF, KB1WEP, KB1WDW, KG7MFC and her husband Bob, KJ7SWO, KA7ZAU, N7SAX, KF7BNX, K9IMM, KJ7PWT, who helped with the Air Races this year. We gave 395 hours of volunteer time with Security." From Bob.

Editor's note: Bob conveniently forgot to mention himself in that group. And the 395 hours is pretty amazing, that's over 30 hours average per person (Bob personally did way more). The Air Races are one of the premier events here, and a group of Amateur Radio Operators is a crucial part of it. Thank you Bob and crew!

Weekly Department of Emergency Management Net Schedules!

STATE OF NEVADA DEM WEDNESDAY NETS W7DEM

MODE	FREQ	TIME
HF Phone	3.965 MHz	0830 to 0845
HF CW/Code	3.556 MHz	0845 to 0900
Fusion		0900 to 0915
VHF 2m *	147.27 MHz	0900 to 0920
• PLEASE NOTE: Alternate frequency 442.9 MHz PL 156.7		
• DMR Nevada TG 3132 0920 to 0945		

The W7DEM weekly COMMEEX is designed to achieve testing of fixed and mobile communication stations and interoperability capabilities of various agencies and organizations to prepare for emergency response; locally, regionally, and nationally. In other words, we want to be sure that you can communicate with us via ALL modes available to us and you. There is no specific protocol, just check in with your name, call sign and location. For CW, just the call sign is sufficient. Please join us if you can.

Carson City ARES/DEM welcomes any and all check-ins on Wednesday mornings. Fusion, DMR, Winlink, Winlink Packet, HF, VHF -- your choice, any or all.

We recently added HF NETs beginning at 0830 on 3.965 MHz. At 0845 we switch to 3.556 MHz for CW check ins at around 10-15 WPM. We will QRS! If you check in at a slow speed, we will slow to accommodate you. These NETs are open to any and all Amateur Radio Operators that would like to participate. CW check ins are HIGHLY encouraged.

The Fusion net takes check-ins every Wednesday morning starting at 0900. Because we are quite busy in the DEM radio room, we conduct the Fusion net between 0900 and 0915. We take a break at that point to do the statewide NAWAS roll call. Then we take check-ins via the DMR Nevada Talk Group (3132) from 0920 to 0945. Our VHF net on the 147.27 repeater starts at 0900 and runs to 0920.

Fusion Repeaters:

Eagle Ridge	442.225	T 156.7
Carson DEM	442.900	T 156.7
Lake Tahoe	442.300	T 156.7
Smith Valley	440.050	T 94.8
Lovelock	444.225	T 123.0
Las Vegas	449.950	No Tone

Angels Peak 449.550 is the new Fusion repeater located in the Las Vegas Metro area. Coverage is from Mercury NV south to Boulder City. It is the first wide area Fusion machine in Las Vegas Metro!

(Continued on next page.....)

ARES NEWS Continued from previous page....

Using WINLINK

If you're not presently using Winlink, it's very easy to download and set up. See this Youtube [video](#).

The DEM HF Gateway is available 24/7 and takes traffic via VARA, ARDOP and PACTOR. To use it, proceed as follows:

- Open WINLINK/RMS Express, and then on the OPEN SESSION button, open the mode you want to use (VARA, ARDOP etc.)
- Next use the Channel Selection button in that mode to find the W7DEM frequencies. It's a good idea to use the Update via Internet option so you have the most current station info.

Using the Message button at the top of the main window, compose your message, address it to W7DEM and W4FLL please, and post to your outbox. When you start a session your traffic will be sent. If you need help with this, let us know.

At 1000 we participate in the CalOES HF Net which runs until around 1045. We also participate in a FEMA FNARS net during this time period and acknowledge calls on the State 800MHz Public Safety radio system.

NORTHWEST DISTRICT ARES NET

Weekly Thursday night ARES Net **1930**.

Uses the SNARS Linked Repeater system.

Mt Rose 147.150 + PL 123.0

Peavine 147.210 + PL 100.0

Virginia Pk 147.030 + PL 123.0

Lobdell Pk 444.875 + PL 100.0

Toulon Pk 146.925 - PL 123.0

Winnemucca 146.670 - PL 123.0

The purpose of this net is to develop teamwork in the Nevada Section NW District ARES organization. This net also provides a venue for announcements concerning events, activities training, and exercises.

John KD7NHC

NORTHWEST NEVADA HOSPITAL NET

Friday mornings at **1000**

On the SNARS linked repeater system

147.150 + 123.0 Lake Tahoe, Truckee, Carson, Fallon

147.210 + 100.0 Reno, Sparks

444.125 + 123.0 Reno, Sparks (coming soon)

147.030 + 123.0 Sparks, Spanish Springs, Fernley

146.925 - 123.0 Lovelock, Fallon

146.670 - 123.0 Winnemucca (NNARS Supported)

444.875 + 100.0 Yerington, Smith Valley

DMR Check-in Before the hospital net you can check-in on the **DMR Nevada Talk Group** starting at **0930** and closing at approximately **0955**

This is not a formal net. John KL7RI has the channel open at St. Mary's and receive calls from Hospitals outside of the SNARS repeater system. He has been taking check-ins from the North Eastern Nevada Regional Hospital (Elko) and Battle Mountain General Hospital (Battle Mountain) and serve as a relay to the net control operator.

WINLINK Check-In You can check-in on Winlink (Telnet). This system provides a method to check-in using the internet as well as radio packet. However, at this time it's recommend Winlink (Telnet) internet operation. When you use the Winlink (Telnet) system and wish to check-in to the hospital, you simply address your telnet message to KA7ZAU, WA6MTY, W4FLL, and KL7RI.

Bob Miller WA6MTY

Emergency Coordinator for Washoe County

Amateur Radio Emergency Service

775 843-5952 www.wcares.us wa6mty@gbis.com

FUN STUFF FOR OCTOBER

October has just two ARRL/NCJ sponsored contests, shown in BOLD. There are 7 state QSO parties, (four of which including our own NVQP shown in BOLD) the weekend of Oct 8. We want people to participate in OUR QSO party, we should all join theirs too! The CQ WW (SSB) is the last weekend in October.

1 Oct 1600 to 2 Oct 2200 1.8-28 California QSO Party CW,Ph
www.cqp.org/Rules.html

8 Oct 0300 to 9 Oct 2100 1.8-28, V/U Nevada QSO Party CW,Ph,Dg
www.nvqso.com

8 Oct 0600 to 9 Oct 0600 1.8-28 Oceania DX Contest, CW
www.oceaniadxcontest.com

8 Oct 1500 to 9 Oct 0500 1.8-28 Arizona QSO Party CW,Ph
www.azqp.org

8 Oct 1600 to 9 Oct 2200 No WARC Pennsylvania QSO Party CW,Ph
www.paqso.org

8 Oct 1800 to 9 Oct 1800 1.8-28, 50, 144 South Dakota QSO Party CW,Ph,Dg www.sdqsoparty.com

15 Oct 0000 to 16 Oct 2359 50-1296 ARRL EME Contest CW,Ph,Dg
www.arrl.org/eme-contest

15 Oct 1400 to 16 Oct 0200 No WARC New York QSO Party CW,Ph,Dg www.nyqp.org

16 Oct 1700 to 17 Oct 0100 1.8-28, 50, 144 Illinois QSO Party CW,Ph,Dg www.w9awe.org/ilqp

17 Oct 1300 to 21 Oct 2359 No WARC ARRL School Club Roundup CW,Ph,Dg www.arrl.org/school-club-roundup

22 Oct 1500 to 23 Oct 1500 1.8 Stew Perry Topband Challenge CW
www.kkn.net/stew

23 Oct 1300 to 26 Oct 0700 1.8-28, 50, 144 Classic Exchange, CW
www.classicexchange.org

29 Oct 0000 to 30 Oct 2359 1.8-28 CQ Worldwide DX Contest, SSB Ph www.cqww.com

Check out the rest here:

<http://www.arrl.org/files/file/Contest%20Corral/2022/October%202022%20Corral.pdf>

If you're not into contests, there's always DX to chase! October offers stuff from around the globe - Africa and islands around it, the Western Pacific, Indian Ocean, and more. So much DX, so little time.

Sep 28 to Oct 11	Namibia	V5
Oct 01 to Oct 15	Marquesas	TX7G
Oct 02 to Oct 17	Maldives	8Q7TD
Oct 05 to Oct 17	Comoros	D60AE
Oct 06 to Oct 13	Mariana Is	AH0
Oct 08 to Oct 17	Madagascar	5R8FG
Oct 13 to Oct 20	Montserrat	VP2
Oct 14 to Oct 26	Benin	TY0RU

Oct 26 to Nov 03
Oct 25 to Nov 10
Oct 29 to Nov 07

Cocos Keeling
Papua New Guinea
Djibouti

VK9CM
P29RO
J28MD

Check <https://www.ng3k.com/Misc/adxo.html> for updates on DXpeditions to make sure they're still a go and see other listings, there are a bunch this month!

RENO QRP SLOW SPEED CW NET

NEXT NET SESSIONS (two of them) WILL BE October 6th and October 20th, at 10 AM Pacific. Check with WD7Y@sbcglobal.net to confirm times. Target frequency 7.045 MHz, if busy search somewhere near that frequency.

THE FOLLOWING SHOULD ALWAYS BE IN YOUR REPORT:

NAME, RST, LOCATION, RIG, POWER, ANTENNA.

REMEMBER TO INCLUDE RST IN YOUR REPORT

Feel free to add something else in your exchange.

Take some time to report RST for other OP's or anything else that comes to mind.

Sharing information about you and your equipment will accomplish two things.

First It gives you and everybody else practice sending and copying.
Second It is nice to spend time on the air with your friends. Consider this a QRP meeting on the air.

Relax and have some airtime fun with your friends.
73/72 Ed/WD7Y

NAME THAT RIG (from page11)

In 1978 Kenwood introduced the TL-922 linear amplifier. Utilizing 2 Eimac 3-500Z tubes as was very popular in that era, the TL-922 as powered by the internal supply would produce 2000W PEP SSB, or 1000W CW output, or 700W RTTY steady carrier output. The original TL-922 covered 160 through 10 meters (non-WARC, although people have reported it would tune the WARC bands). The TL-922 was followed by the TL-922A, which eliminated the 10 meter band as dictated by the FCC which didn't allow coverage over 24 Mhz at the time in amplifiers (unless for VHF/UHF, aimed at discouraging the CB crowd).

The TL-922 was a well made amplifier, with rugged components, although it had some design issues that many people sought to modify. Like most tube amplifiers of the day, it wasn't directly compatible with some solid state transceivers, and required some modifications to the keying, especially if one was going to operate QSK.

The TL-922 and the A model are still in wide use today, and command a decent price in the used market.

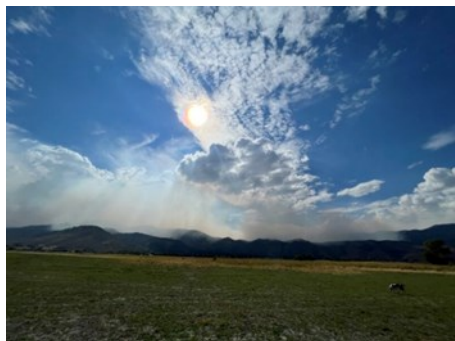


TL-922A Note there are only 5 positions on the bandswitch

NEW FEATURE! SNARS STATION ACTIVITIES

AG7TX WASHOE LAKE SP, K-2640, AAR 11 SEPT 2022

It begins...



both made the Girl happy. But when we drove over the summit into Washoe Valley, I knew the outing was done. I exited I-580 at Bellevue Road and could not see the lake for the smoke. So, I turned around and drove home.

When I rose Sunday morning, the air was much clearer. So after getting a bite and a coffee, The Girl and I headed north to Washoe Lake. The temperature was much cooler than it had been for weeks. The walk was nice. But on the way back I realized I left two liters of water on the counter at home. So we drove over the the east side of the lake, where there is a fuel depot and convenience store. I bought a couple bottles of water and a bag of beef jerky. Then we were back off to the operating area.

I decided to erect a SOTabeams Bandsprnger that was in my inventory. I have a number of end-fed random wire antennas in my kit that I built. So this unit languished. But I wrote a few weeks about about the abortive attempt of a good friend to deploy his Bandspringer. So I thought I would set my instance up and test it.



I ran a simple station for this outing. It was the Elecraft KX2 to an end fed random wire in an inverted vee configuration. The battery is a 4.5Ah Bioenno LFP and the key is the Begali Dual Adventurer. I was running ten watts. The directions for the antenna are not very good. But I use this type of antenna often and knew what to do. I ran the radiating wire out in the direction I wanted to deploy the antenna. I ran the counterpoise wire out parallel to it but a few feet away. I then setup a six-meter carbon fiber mast that is super quick to deploy, ran the tip through the fixture used to attach the wire to the mast, and spaced things out so the mast was the right distance from the radio table.

I staked the distal end of the radiating wire and walked back to the operating point. I staked the radiator at a point about three feet upstream from the feed point to provide some strain relief at the radio should the wind blow. It was then a matter of connecting the antenna to the radio, affixing the key to the radio, and connecting a power supply. Total setup time was about 15 minutes.

I checked in to the 40m Noontime Net with ten watts phone and then played around hunting other activators. They were not hearing me. I decided that meant I should just run a frequency. So I gave The Girl some water and got some for myself. I found a jar of honey-roasted peanuts in the rig and had a snack (The Girl begged some peanuts as well). I picked a frequency on the 20m band and spotted myself. After a few calls I started working callers. I had a couple of small pileups that were fun to work. When the responses stopped coming, I switched to the 17m band and worked a few more. I decided to try the 15m band, but when I listened there the noise level was S5 (that is pretty high for a rural area). I went back to the 20m band and worked a few more stations. Then I shut down the radio and just sat back for a moment.



We had a good walk before I set up the station. As I prepared to put the kit away, I stopped for a selfie with The Girl, who was happily napping.

About that time my buddy Dick called. "Man, I've been busting my ass to get this done while you were still activating so I could test it with you!". Then I saw you go QRT [cease operations] and said 'Aw man!'. "I can turn the radio back on." I did, but someone had occupied the frequency I was using on 20m. So I tuned a few kiloHertz to the left and found an open frequency. "Call me on 14.063MHz. I'm listening." I heard his call loud and clear, so I responded and

we made the exchange. Then we chatted a moment (in Morse Code).

After tearing down the station, I took a few minutes to watch the smoke front approach from the west. I then looked up from the radio and noticed smoke. What I saw was the first image at the top of this entry. "Wow! You should see the smoke rolling over the mountains. Something must have changed. It's time for me to put things away. I have time, but the smoke is coming and I don't want to have to be in it." We continued chatting while I put everything away. That took me about 15 minutes. The smoke continued to increase as time passed.



This was the view to the north end of Washoe Lake.



Slide Mountain is behind the smoke to the left.

Slide Mountain was invisible in the smoke as I put the last of my equipment in the back of the rig. I gave Sera a bit more water, then put her in the rig. I then stepped around the rig to look to the south.



This is the south end of Washoe Valley about where I-580 crosses into Carson City



As we approached I-580, the smoke front was just crossing the highway.

The smoke front obliterated the view of the highway! I was certainly happy to be in the rig and headed home. I said my goodbyes and drove on. When I crossed the summit into Carson City, the smoke front bisected the city from the northwest to the southeast, intersecting the mountains at the north end of the Prison Hill Complex. I was glad to get home, but also glad to have gone out.

As always, I have a few lessons learnt.

Sorry, not enough room for all of it! Continued on next page....

SNARS STATION ACTIVITIES (Continued from previous page)

- Always check that I have water in the rig. I got distracted and failed to check. It was not a catastrophic failure, but an error nonetheless.
- The Bandspringer is just another end-fed random wire antenna. It is just like others I built as I experimented. It is well-built, but the instructions could use some work. I do not need it in my inventory.
- I was not able to get an impedance match for the 30m band. I suspect that I had some capacitive coupling between the radiator and counterpoise, probably because both were near the top of my small camp table, which is made of aluminum.
- End-fed random wire antennas can be affixed directly to the radio output *if* the radio has a good antenna matching unit built in. If not, then an external antenna matching unit is needed with a

sufficient range to match a wide range of impedance presented by the antenna.

- The Elecraft matching units are very good and will match a wide range of feed point impedances.
- It was good that I noticed the smoke. It would have been unhealthy to be in that smoke very long without a mask. I keep a N95 mask in my pack for just such a case. Unfortunately, along with the water, I left my pack at home. Hmmm...

Regardless of the smoke, it was a good day. After a number of weekends of too much heat, a day in the 80Fs was nice.

73, Dave Thompson, AG7TX

SNARS POTA GATHERING - SUNDAY, OCT 16TH AT WASHOE LAKE STATE PARK 9AM - 12PM+



Radio in the Park

**SNARS POTA Gathering
10-16-2022 9AM-12PM+**

Who's interested in getting together for a POTA event Sunday October 16th at 9a for several hours at Washoe Lake State Park. This weekend is the quarterly POTA OFFICIAL EVENT TO SUPPORT YOUR PARKS POTA

<https://stats.parksontheair.com/plaque/plaquesummary.php>

This POTA (Park On The Air) informal gathering will be an activation in the Washoe Lake State Park (POTA K-2640 Park) on the south end of the State Park at a day use area. Bring your own ham radio gear, antenna's, batteries, etc and have fun together on the air with your own callsign for Parks On The Air. For more information about Parks On The Air, visit

<https://parksontheair.com/>

Click on the link below and fill out the form below to express your interest in this SNARS POTA informal gathering

<https://forms.gle/wS2R3D8ivwVoHFjQ7>

73 Barry K6ST
Sierra Nevada Amateur Radio Society



Board of Directors Meeting Minutes

September 14, 2022 - 6:00PM

At Chin Chin plus Zoom

1. Call to order and roll call at 6:00 PM

Board of Directors:

Anthony Marcin, W7XM	P	Barry Bettman, K6ST	P	John Miller, N7JDM	P
Doug Edmondo, W7DBE	P	John Byerly, N7ROJ	NP	Wes Vick, KG7QXE	P
Jim Shepherd, W6US					

Guest(s) In attendance: Bill Jones, AE7OX, Official Book Keeper.

2. Approval of Minutes - Discussion/Action

The August minutes were approved

3. Approval of Agenda - Discussion/Action

The September Agenda was approved

4. Reports

A. President's Report – Looking forward to the swap meet

B. Secretary Report – 441 members, Getting ready for upcoming elections of board members (3)

C. Treasurer – August 2022 End of Month, Operating: \$9,771, Savings: \$12,484, Self Insurance: \$15,390, Paypal: \$1,696, Convention: \$4,212. Net Monthly: \$343 net YTD: -\$3,606. Memberships 18, Donations year to date \$4,503 (Amazon \$96, Members \$4,350, Paypal \$57, ARRL Commision \$15)

Notes:

Transferred \$151.18 from Self Insurance to Operating to replace damaged antennas
Transferred \$1500 from PayPal to Operating
Transferred \$360 from Operating to Seld Insurance
Transferred \$180 from Operating to Savings

Bill and Tony are looking at different accounting software. No change at this time. Jim noted ARRL is very slow processing checks and issuing commissions back to clubs.

D. Technical Team – Pat / John

Repeater Upgrade – No update, concerns were raised about the need for more transparency and more technical team members so that we can get work done on the sites in a more timely manner.

E. Control Operators / Trustee

Report – Nothing to report

F. Events

NVQSO Party; working on the log entry software to automate logging which really helps Jim and the rest of his team. working on exposure for the event.

G. Education & Youth Activities

1. October 15th it Jamboree on the air – Great Albert Church.
2. The October 28th to the 30th is a Scouting STEM activity at the Livestock Event Center that we are planning for.
3. Another POTA event on October 16th Location TBD.

H. Noon Net - Noon Net Manager

Running Smooth

5. Old Business

- A.** In Person Meetings – The board decided to not go back to the Ramada. Tony is investigating Boom Town and other options while he is here for the swap meet. Discussed a separate members meeting.
- B.** Club Swag – Nothing new, as Tony gets time he will work on it.
- C.** Out door Club event – Spring 2023, May or June timeframe
- D.** Fall Swap Meet – Good to go

6. New Business

Spring 2023 Ham Swap – May 13th is the tentative date.

7. Board member and Public Comments

John M. - Nothing

Jim S. - Looking forward to NVQSO Party

Doug E. - See everyone at the swap meet

Tony M. - Nothing

Barry – Gone next week, Doug is handling Ham Radio Night and the Oct 1st Meeting Zoom duties

Wes - Nothing

Bill J. - Would like to get back to breakfast meetings
Some concern about renewal levels.

8. Adjournment - Action

A. Next Meeting: October 12th, 2022. Location Chin Chin plus Zoom

B. Adjourned at 18:55